

Appl. No. 10/696,794
Examiner: Hewitt, James M, Art Unit 3679
In response to the Office Action dated October 5, 2005

Date: April 5, 2006
Attorney Docket No. 10111395

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): An air mattress, comprising:

~~a mattress pad;~~
~~a back support to raise a part of the mattress pad; and~~
~~an air pump assembly built into the mattress pad to inflate the mattress pad and the back support.~~
a mattress pad, having an upper portion and a lower portion;
a back support, adjacent to the upper portion of the mattress pad; and
an air pump assembly, built into the mattress pad or the back support, inflating the back support to raise the upper portion and vary an angle between the upper and lower portions of the mattress pad.

Claim 2 (withdrawn): An air mattress as claimed in claim 1, wherein the back support comprises a flexible chamber and a holding element binding the flexible chamber.

Claim 3 (withdrawn): An air mattress as claimed in claim 2, wherein the back support further comprises a frame firmly fixed to the flexible chamber and rotatably connected to the mattress pad for collapsing the flexible chamber.

Claim 4 (withdrawn): An air mattress as claimed in claim 3, wherein the back support further comprises at least one slider mounted on the frame, via which the frame slides on the ground.

Claim 5 (withdrawn): An air mattress as claimed in claim 2, wherein the back support further comprises at least two frames hinged together, with the flexible chamber sandwiched therebetween.

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Claim 6 (Previously presented): An air mattress as claimed in claim 1, wherein the back support has a V-shaped cross section.

Claim 7 (New): An air mattress as claimed in claim 1, the air pump assembly comprising a first valve and a first air outlet connected to the mattress pad, wherein the air pump assembly inflates the mattress pad when the first valve is open.

Claim 8 (New): An air mattress as claimed in claim 7, wherein the air pump assembly pumps air in a first direction to inflate the mattress pad, and the air pump assembly pumps air in a second direction to deflate the mattress pad, opposite to the first direction.

Claim 9 (New): An air mattress as claimed in claim 7, further comprising a switching pipe for inflating the mattress pad when in a first position and deflating the mattress pad when in a second position.

Claim 10 (New): An air mattress as claimed in claim 1, the air pump assembly comprising a second valve and a second air outlet connected to the back support, wherein the air pump assembly inflates the back support when the second valve is open.

Claim 11 (New): An air mattress as claimed in claim 1, wherein the air pump assembly comprises a pack having a first air outlet connected to the back support and a second air outlet connected to the mattress pad.

Claim 12 (New): An air mattress as claimed in claim 1, wherein the air pump assembly comprises a pack, a fan and motor, and a motor switch mounted on the pack to activate the fan and motor.

Claim 13 (New): An air mattress as claimed in claim 1, wherein the air pump assembly is actuated by a micro switch.

Claim 14 (New): An air mattress, comprising:

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an inflatable mattress pad comprising an upper portion and a lower portion;
a separately inflatable back support disposed adjacent to the upper portion of the inflatable mattress pad; and
an air pump assembly built into the inflatable mattress pad, the air pump assembly separately connected to the inflatable mattress pad and inflatable back support for inflation thereof, wherein the upper portion of the inflatable mattress pad is raised such that the angle between the upper and lower portions of the inflatable mattress pad is varied when the inflatable back support is inflated by the air pump assembly.

Claim 15 (New): The air mattress as claimed in claim 14, wherein the air pump assembly further comprises a first air outlet communicating with the interior of the inflatable mattress pad, and a second air outlet communicating with the interior of the back support.

Claim 16 (New): The air mattress as claimed in claim 15, wherein the air pump assembly further comprises a fan and motor.

Claim 17 (New): The air mattress as claimed in claim 16, wherein the air pump assembly further comprises a first valve for controlling the passage of air through the first air outlet, and a second valve for controlling the passage of air through the second air outlet.

Claim 18 (New): The air mattress as claimed in claim 17, wherein the air pump assembly further comprises a first switch for opening and closing the first valve, and a second switch for opening and closing the second valve.

Claim 19 (New): The air mattress as claimed in claim 18, wherein the air pump assembly further comprises a motor switch, and wherein the fan and motor can be activated by the motor switch in first direction to inflate the inflatable mattress pad and inflatable back support, and in a second direction to deflate the inflatable mattress pad and inflatable back support.

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Claim 20 (New): The air mattress as claimed in claim 14, wherein the air pump assembly is connected to the inflatable back support through the interior of the inflatable mattress pad.